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May 24, 1994

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MAY 24 1994

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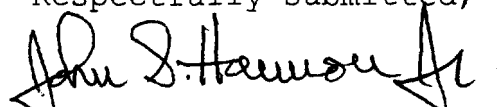
Mr. William F. Caton
Acting Secretary
Federal Communications Commission
1919 M Street, N.W.
Room 222
Washington, D.C. 20554

Ref: Ex Parte Contact in GEN Docket No. 90-314

Dear Mr. Caton:

Members of the MSS Spectrum Coalition, including representatives of COMSAT Mobile Communications, Iridium, Inc., AMSC, Loral/Qualcomm, TRW and Celsat, met with Scott Harris and James Ball, Office of International Communications of the FCC, to discuss options for increasing the amount of global spectrum for use by MSS systems. The attached briefing charts were also used.

Respectfully submitted,


John S. Hannon, Jr.

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BRIEFING FOR SCOTT HARRIS
MSS GLOBAL SPECTRUM ISSUES

MAY 24, 1994

by

MSS INDUSTRY SPECTRUM COALITION:

AMSC
CELSAT
COMSAT
IRIDIUM, INC.
LORAL/QUALCOMM
TRW

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ECONOMIC IMPORTANCE OF MSS INDUSTRY

- **Spectrum is Vital to the U.S. Mobile Satellite Industry:**

- **INMARSAT: 73 Countries; Global System Expanding; Immediate Plans for 2 GHz MSS Bands; filed with IFRB March 3, 1992, Requested Coordination, 1993.**
- **AMSC: First Launch 4th Quarter 1994; Application for Satellite PCS Services at 2 GHz, filed April 7, 1994 (2 GHz Rulemaking Petition Pending)**
- **CELSAT: Application for Satellite PCS Services at 2 GHz, filed April 8, 1994**
- **IRIDIUM: First-round Equity Financing of \$1.0B Committed 14 Partners in 11 Countries; 66 Satellite System Under Development; use Big LEO Bands Initially; filed with IFRB November, 1993**
- **GLOBALSTAR: Financing of \$275M Announced with 10 Partners in 5 Countries; LORAL Developing Spacecraft; Use Big LEO Bands Initially**
- **ODYSSEY: TRW Seeking Financial Partners for 12 Satellite MEO System; Use Big LEO Bands Initially; Has Filed for Rulemaking to Allocate 2 GHz Bands Domestically to MSS**

MSS PROMOTES U.S. INTEREST IN THE GLOBAL MARKETPLACE

- PROMOTES U.S. HIGH-TECH JOBS IN RESEARCH AND DEVELOPMENT, MANUFACTURING AND OPERATIONAL SERVICES
 - PROJECT-21 (26,000 JOBS ESTIMATED BY A. D. LITTLE & CO.)
 - IRIDIUM (241,000 JOB-YEARS THROUGH 2002, PER NATHAN ASSOC.)
 - AMSC (27,000 JOB-YEARS THROUGH 2000)
 - TOTAL U.S. SYSTEMS COSTS COULD EXCEED \$10B INITIALLY
- PROMOTES U.S. COMPETITIVENESS IN THE GLOBAL MARKETPLACE
 - U.S. TECHNOLOGY LEADERSHIP
 - FAVORABLE BALANCE OF PAYMENTS
 - STIMULATES ECONOMIC DEVELOPMENT AND DEMAND FOR U.S. PRODUCTS
- PROMOTES NII AND GII WITH UNIVERSAL SERVICE
 - VP GORE AND CHAIRMAN HUNDT MESSAGE TO THE BUENOS AIRES CONFERENCE ON TELECOM DEVELOPMENT
 - BRINGS MODERN-DAY PCS SERVICES TO RURAL AMERICA AND REMOTE AREAS WORLDWIDE

SPECTRUM CURRENTLY AVAILABLE:

- **RDSS BAND (16.5 MHz EACH DIRECTION)**
 - **CONSTELLATION**
 - **ELLIPSAT**
 - **GLOBALSTAR**
 - **IRIDIUM**
 - **ODYSSEY**
- **L-BAND (33 MHz EACH DIRECTION)**
 - **5-WAY COORDINATION (U.S., CANADA, MEXICO, RUSSIA, INMARSAT) IN PROCESS FOR SEVERAL YEARS -- ALL 5 COUNTRIES HAVE REAL SYSTEMS**
- **THE PLANS FOR THE FUTURE -- 2 GHz (S-BAND) (40 MHz EACH DIRECTION)**
 - **APPROVED BY 100 PLUS COUNTRIES AT WARC-92**

MOBILE SATELLITE SERVICE (MSS) OVERVIEW OF THE PROBLEM

- **Spectrum Needs for MSS Well Documented Prior to WARC-92:**
 - **FCC Industry Advisory Committee**
 - **International Working Party (CCIR)**
- **USA Strongly Advocated MSS Allocations at WARC-92; Agreement Reached After Difficult Negotiations:**
 - **Limited L-Band 5 MHz Expansion**
 - **Big LEOs Provide MSS in Old RDSS Bands**
 - **2 GHz MSS Bands (future availability)**
 - **Other MSS Allocations Unusable in the USA**
- **Events Following WARC-92:**
 - **Big LEO FCC Proceeding**
 - **L-Band Spectrum Congestion**
 - **FCC Emerging Technology Proceeding**
 - **USA Promotes Early Use of WARC-92 2 GHz MSS Bands at WRC-93**

PROBLEM

- PCS ORDER ASSIGNS 2 X 20 MHz OF THIS SPECTRUM TO PCS; PCS AND MSS CANNOT SHARE
- THIS WILL HAVE SEVERE INTERNATIONAL (ITU) IMPLICATIONS
- MSS NEEDS 2 X 40 MHz IN THIS BAND
 - NEED IS GREATEST IN NORTH AMERICA -- MOST SEVERE COORDINATION PROBLEM TODAY, IN L-BAND
 - PROBLEM WILL BE JUST AS BAD AT 2 GHz:
 - MULTIPLE SYSTEMS HAVE ALREADY FILED WITH ITU
- TO ASSURE GROWTH IN AEROSPACE INDUSTRY AND AVOID INTERNATIONAL ISSUES, ADEQUATE SPECTRUM IS REQUIRED

MSS COALITION ASKS THE FCC TO:

- **RESTORE THE 2 X 40 MHz TO MSS IN THE PCS RECONSIDERATION**
- **INITIATE A PROCEEDING TO ADDRESS THE MSS WARC-92 ALLOCATIONS**
 - **MSS INDUSTRY WILL DEFEND USE OF FULL 2 X 40 MHz ALLOCATION**
 - **EXISTING USES SUCH AS ENG AND MDS SHOULD BE ADDRESSED**
 - **THIS WILL FACILITATE COMPREHENSIVE, NOT PIECEMEAL, APPROACHES TO MSS NEEDS**